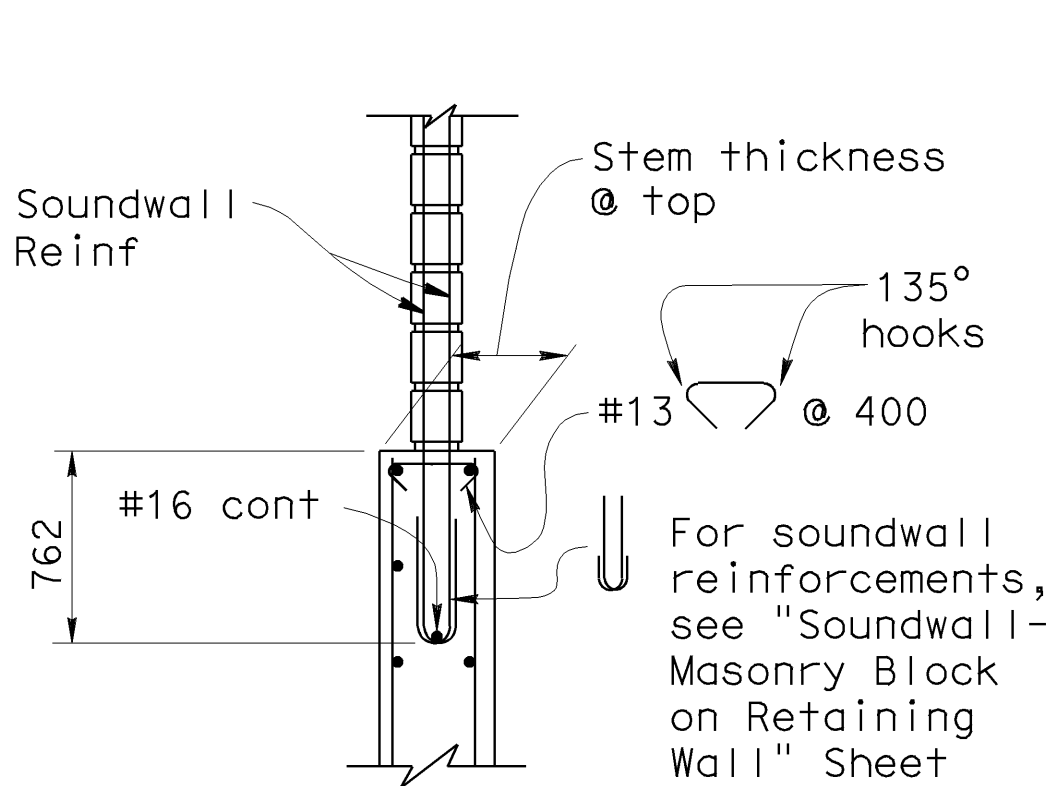
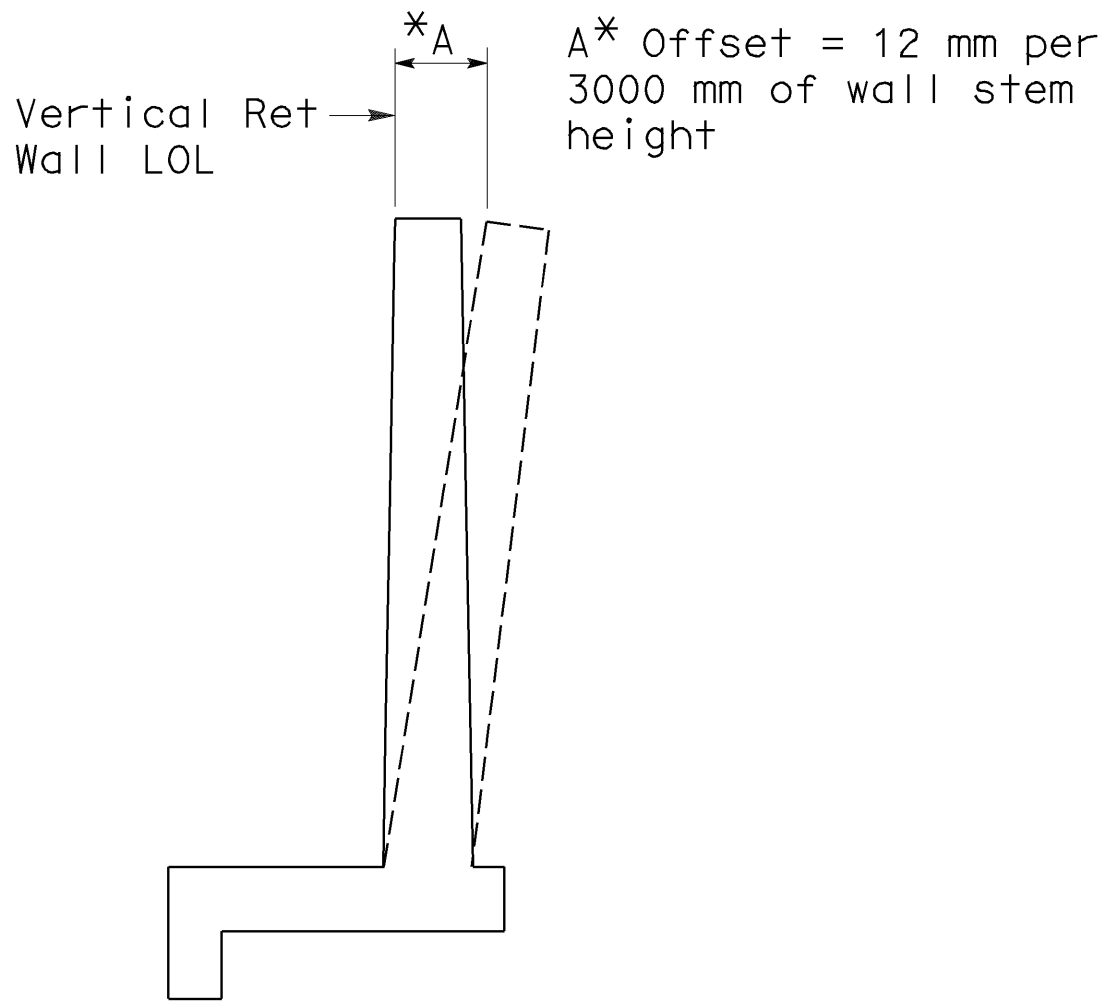


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED ENGINEER - CIVIL					
PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



DETAIL A

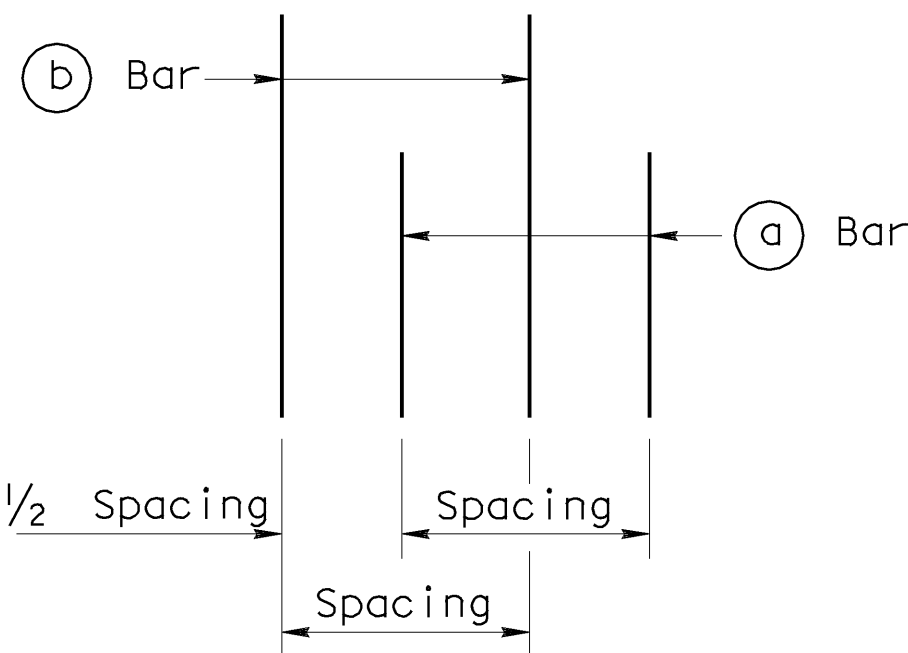
No Scale



WALL OFFSET

No Scale

Values for offsetting forms to be determined by engineer

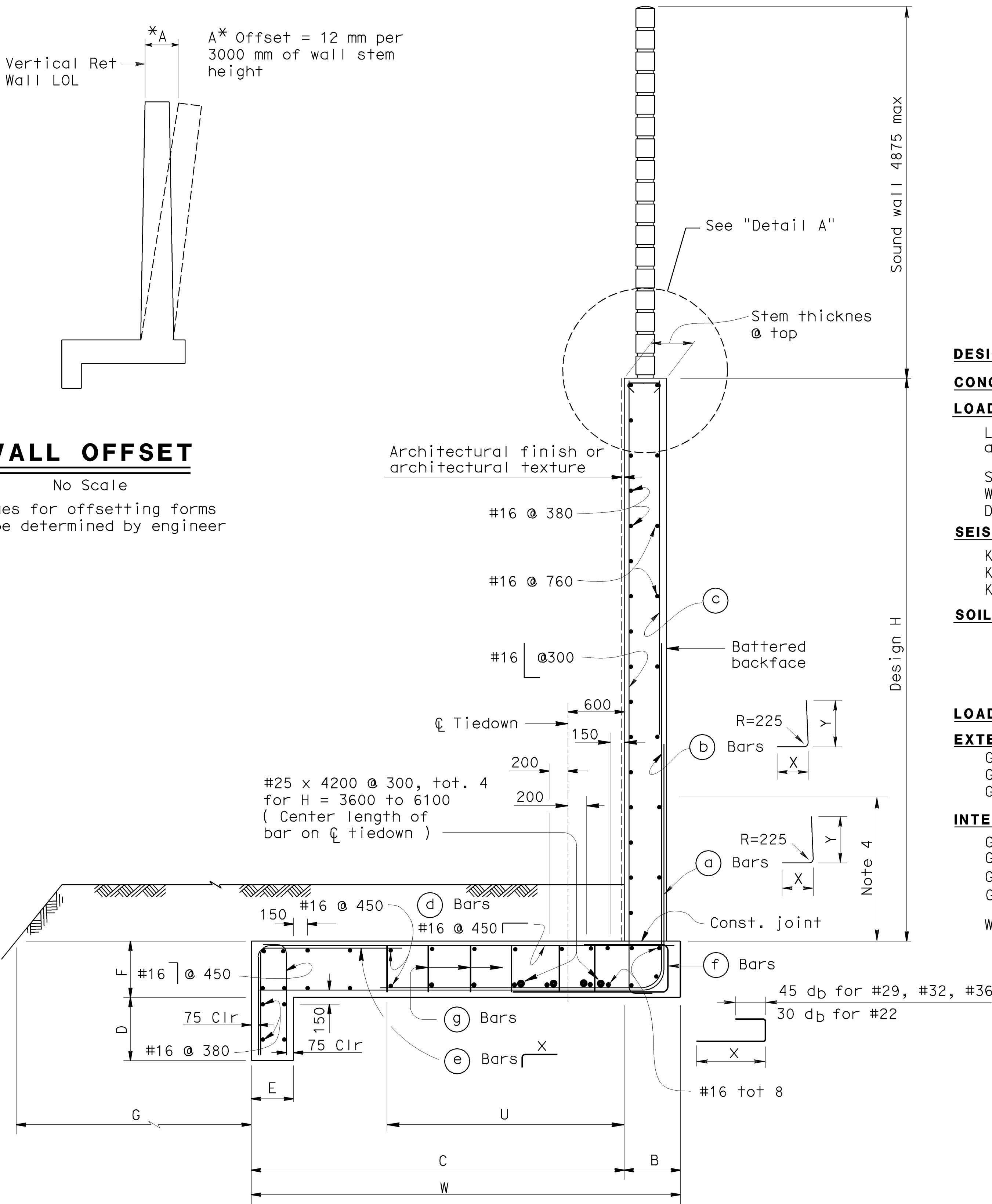


REBAR SPACING

No Scale

GENERAL NOTES

1. For soundwall and retaining wall architectural finish or texture, see details elsewhere in project plans.
2. For details not shown and drainage notes, see (B3-8)
3. Footing coverage, 600 mm minimum.
4. Limit of no splicing rebars = H/3 .
5. Increasing stem thickness not permitted.
6. Place footing key concrete against undisturbed material.
7. Shift (a) bars, (b) bars, and (c) bars as required to clear formed hole for tiedown.
8. No reinforcements in footing key for H=2400 to H=3600.
9. Maximum distance from (c) tiedown to edge of footing = 0.4(S).



SPREAD FOOTING SECTION

No Scale

- DESIGN DATA**
- DESIGN:** Load Factor Design (LFD)
- CONCRETE:** Reinforced Concrete, f'c = 25 MPa
fy = 420 MPa
- LOADING CASE:**
Level ground with 11.5 kPa live load surcharge and 4875 mm Soundwall
Seismic Load = 0.3 Dead Load
Wind Load = 1435 Pa
Dead Load of Soundwall = 20.6 kN/m
- SEISMIC LOAD: SOIL**
Kh = 0.3g
Kv = 0.0
Kae : Mononobe-Okabe Method
- SOIL:** Ø = 34° γ = 19 kN/m³
Equivalent fluid pressure:
STATIC = 5.6 kPa/m for determination of toe pressure
SEISMIC = Coulomb's Theory
- LOAD COMBINATIONS:**
- EXTERNAL STABILITY:**
Group 1 : D + E + SC + 0.75T (F.S. Sliding > 1.5)
Group 2 : D + E + SC + W + 0.75T (F.S. Sliding > 1.2)
Group 3 : D + PYM + Pav + V + 1.0 T (F.S. Sliding > 1.0)
- INTERNAL STABILITY: (LFD)**
Group A : βD + 1.7 E + 1.7 SC + 0.75 T
Group B : βD + 1.7 E + 1.3 W + 0.75 T
Group C : (Stem) 1.0 D + 1.0 E + 1.0 EQD + 1.0 EQE
Group C : (Footing) D + PYM + Pav + V + 1.0 T
- Where : β = 1.0 or 1.3 whichever controls design
D = Dead Load
E = Lateral Earth Pressure
Pav = Vertical Earth Pressure
SC = Live Load Surcharge
W = Wind Load
EQD = Seismic Dead Load
EQE = Seismic Lateral Earth Pressure
PYM = Probable Yield Moment (1.3 x Nominal Yield Moment of Stem)
V = Possible Shear at Base of Stem associated with Probable Yield Moment
T = Design Force for Vertical Tiedown

STANDARD DRAWING				
FILE NO. xs14-380-1	DESIGN BY <i>Madon Sah</i>	CHECKED <i>Lisa Tanaka</i>	APPROVAL RECOMMENDED BY	
DRAWING DATE 9 / 94	DETAILS BY <i>Bing Fok</i>	CHECKED <i>Overcomer Hor</i>	DESIGN SUPERVISOR <i>Roberto Lencelle</i>	
SUBMITTED BY <i>Overcomer Hor</i>				

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO.	RETAINING WALL TYPE 7SW - DETAIL NO. 1
KILOMETER POST	